

Imperial Conversion Table

1 foot = 12 inches
1 yard = 3 feet = 36 inches
1 mile = 1760 yards = 5280 feet

Metric System

km hm dm m dem cm mm
move to right, decimal moves to the right
move to the left, decimal to the left

**The Conversion Factors
Between SI and Imperial Units**

<i>SI to Imperial</i>	<i>Imperial to SI</i>
1 mm = 0.0394 in	1 in = 25.4 mm
1 cm = 0.3937 in	1 inch = 2.54 cm
1 m = 3.2808 ft	1 ft = 0.3048 m
1 m = 1.0936 yd	1 yd = 0.9144 m
1 km = 0.6214 mi	1 mi = 1.6093 km

1 kg = 2.2 lb
454 g = 1 lb
2000 lb = 1 ton
2200 lb = 1 tonne = 1000 kg (metric tonne)

Converting US Imperial to SI Units

US Imperial SI
1 fl oz = 29.5735 mL
1 pt = 16 fl oz 473.176 mL or 0.473 L
1 qt = 2 pt 946.352 mL or 0.946 L
1 gal = 4 qt 3785.4 mL or 3.785 L

$$F = \frac{9}{5} C + 32$$
$$C = \frac{5}{9} (F - 32)$$

Imperial SI
¼ teaspoon = 1.25 mL
½ teaspoon = 2.5 mL
1 teaspoon = 5 mL
1 tablespoon (3 teaspoons) = 15 mL
1 cup = 250 mL
1 pint = 568.2614 mL
1 quart (2 pt) = 1.1365 L
1 gallon (4 qt) = 4.5461 L

Formula's:

area of triangle = $\frac{bh}{2}$

area of square/rectangle = bh

area of hexagon, octagon, pentagon; divide the object into triangles,
find the area of 1 triangle, multiply by the number of triangles

area of a circle = πr^2

circumference of a circle = πd

Surface area = find the area of each side and add areas together

S.A. of a cylinder = $2\pi r^2 + 2\pi rh$

S.A. of a cone = $\pi r^2 + \pi rs$

S.A. of a sphere = $4\pi r^2$

Volume = area of the base x height of the object

Volume of a sphere = $\frac{4\pi r^3}{3}$

Volume of a cylinder = $\pi r^2 h$

Volume of a cone = $\frac{\pi r^2 h}{3}$

Volume of a pyramid = $\frac{\text{area of base} \times \text{height}}{3}$